

# PATENT ABSTRACTS OF JAPAN

(11)Publication number : 62-119212  
 (43)Date of publication of application : 30.05.1987

(51)Int.CI. C08F210/06  
 C08F 4/64  
 C08F210/00  
 C08L101/00

(21)Application number : 60-258500 (71)Applicant : MITSUI PETROCHEM IND LTD  
 (22)Date of filing : 20.11.1985 (72)Inventor : TSUTSUI TOSHIYUKI  
 TOYODA AKINORI  
 KASHIWA NORIO

## (54) PROPYLENE RANDOM COPOLYMER AND USE THEREOF

### (57)Abstract:

**PURPOSE:** To provide the titled copolymer composed of propylene and an  $\alpha$ -olefin, having narrow molecular weight distribution and compositional distribution, specific intrinsic viscosity, melting point, solubility and  $^{13}\text{C}$ -NMR spectrum and excellent transparency and tensile characteristics and useful as a packaging film, etc.

**CONSTITUTION:** Propylene and a 4W20C  $\alpha$ -olefin are copolymerized in the presence of a catalyst composed of an indenyl group-containing zirconium compound and alumino-oxane to obtain the objective copolymer composed of 40W90mol% propylene component and 10W60mol%  $\alpha$ -olefin component, having an intrinsic viscosity  $[\eta]$  of 0.5W6dl/g measured in decalin at 135° C, a molecular weight distribution ( $M_w/M_n$ ) of  $\leq 3$  and a melting point and crystallinity of 40W140° C and 1W50% respectively measured by differential scanning calorimeter, containing  $\leq 1\text{wt\%}$  component soluble in boiling methyl acetate and  $\leq 4 \times [\eta] - 1.2\text{wt\%}$  component soluble in acetone/n-decane mixture (1/1 by volume) at 10° C, free from the signal of two adjacent methylene chains between two adjacent tert-carbon atoms in the main chain measured by  $^{13}\text{C}$ -NMR spectrum and having a standard deviation of compositional distribution of  $\leq 10\text{mol\%}$ .

### LEGAL STATUS

[Date of request for examination]

[Date of sending the examiner's decision of rejection]

[Kind of final disposal of application other than the examiner's decision of rejection or application converted registration]

[Date of final disposal for application]

[Patent number]

[Date of registration]

[Number of appeal against examiner's decision of rejection]

[Date of requesting appeal against examiner's decision of rejection]

[Date of extinction of right]